Substitute for form 1449A/PTO INFORMATION DISCLOSURE 10/643,741 **Application Number** STATEMENT APPLICANT August 18, 2003 **Filing Date** Scott, Steven **First Named Inventor** OCT 1 4 2004 **Group Art Unit** 2153 2185 Sarla **Examiner Name** Unknown\_ Attorney Docket No: 1376.733US1

|                       |                        | US PA            | ATENT DOCUMENTS                                    | <u> </u> |          |                               |
|-----------------------|------------------------|------------------|--|----------|----------|-------------------------------|
| Examiner<br>Initial * | USP Document<br>Number | Publication Date | Name of Patentee or<br>Applicant of cited Document | Class    | Subclass | Filing Date<br>If Appropriate |
| A S.                  | US-4,771,391           | 09/13/1988       | Blasbalg, Herman                                   | 364      | 514      | 07/21/1986                    |
|                       | US-4,868,818           | 09/19/1989       | Madan, Herb S., et al.                             | 371      | 11       | 10/29/1987                    |
|                       | US-4,933,933           | 06/12/1990       | Dally, William J., et al.                          | 370      | 60       | 12/19/1986                    |
|                       | US-5,008,882           | 04/16/1991       | Peterson, , et al.                                 | 370      | 943      | 08/17/1987                    |
|                       | US-5,031,211           | 07/09/1991       | Nagai, Yasuhiro , et al.                           | 379      | 221      | 02/01/1990                    |
|                       | US-5,036,459           | 07/30/1991       | Den Haan, Petrus A., et al.                        | 364      | 200      | 03/09/1989                    |
|                       | US-5,105,424           | 04/14/1992       | Flaig, Charles M., et al.                          | 370      | 941      | 06/02/1988                    |
|                       | US-5,157,692           | 10/20/1992       | Horie, Takeshi, et al.                             | 375      | 38       | 03/20/1990                    |
|                       | US-5,161,156           | 11/03/1992       | Baum, Richard I., et al.                           | 371      | 7        | 02/02/1990                    |
|                       | US-5,170,482           | 12/08/1992       | Shu, Renben, et al.                                | 395      | 800      | 02/13/1991                    |
|                       | US-5,175,733           | 12/29/1992       | Nugent, Steven F.                                  | 370      | 94       | 12/27/1990                    |
|                       | US-5,218,601           | 06/08/1993       | Chujo, Takafumi , et al.                           | 370      | 16       | 12/20/1990                    |
|                       | US-5,218,676           | 06/08/1993       | Ben-ayed, Mondher, et al.                          | 395      | 200      | 01/08/1990                    |
|                       | US-5,239,545           | 08/24/1993       | Buchholz, Dale R.                                  | 370      | 95.3     | 11/05/1990                    |
|                       | US-5,276,899           | 01/04/1994       | Neches, Philip M.                                  | 395      | 800      | 08/10/1990                    |
|                       | US-5,280,474           | 01/18/1994       | Nickolls, John R., et al.                          | 370      | 60       | 01/05/1990                    |
|                       | US-5,313,628           | 05/17/1994       | Mendelsohn, Noah<br>R., et al.                     | 395      | 575      | 12/30/1991                    |
|                       | US-5,313,645           | 05/17/1994       | Rolfe, David B.                                    | 395      | 800      | 05/13/1991                    |
|                       | US-5,331,631           | 07/19/1994       | Teraslinna, Kari T.                                | 370      | 60       | 03/16/1993                    |
|                       | US-5,333,279           | 07/26/1994       | Dunning, Dave                                      | 395      | 325      | 06/01/1992                    |
|                       | US-5,341,504           | 08/23/1994       | Mori, Kinji , et al.                               | 395      | 800      | 03/01/1990                    |
|                       | US-5,347,450           | 09/13/1994       | Nugent, Steven F.                                  | 395      | 200      | 08/19/1993                    |
|                       | US-5,353,283           | 10/04/1994       | Tsuchiya, Paul F.                                  | 370      | 60       | 05/28/1993                    |
|                       | US-5,365,228           | 11/15/1994       | Childs, Philip L., et al.                          | 340      | 825.8    | 08/21/1991                    |
|                       | US-5,434,995           | 07/18/1995       | Oberlin, Steven M., et al.                         | 395      | 550      | 12/10/1993                    |
| ,                     | US-5,440,547           | 08/08/1995       | Easki, Hiroshi, et al.                             | 370      | 60       | 01/05/1994                    |
| V                     | US-5,517,497           | 05/14/1996       | LeBoudec, Jean-<br>Yves, et al.                    | 370      | 60.1     | 03/21/1995                    |
| 1/1.51                | US-5,546,549           | 08/13/1996       | Barrett, Linda, et al.                             | 395      | 309      | 06/01/1994                    |

DATE CONSIDERED **EXAMINER** 

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| A   | 3   | US-5,548,639 | 08/20/1996 | Ogura, Takao, et al.        | 379 | 221   | 10/22/1992 |
|-----|-----|--------------|------------|-----------------------------|-----|-------|------------|
| -// | 1   | US-5,550,589 | 08/27/1996 | Shiojiri, Hiroshisa, et al. | 348 | 387   | 11/04/1994 |
|     | ,   | US-5,555,542 | 09/10/1996 | Ogura, Takao , et al.       | 370 | 94.1  | 01/11/1996 |
|     | 15, | US-RE28,577  | 10/21/1975 | Schmidt, William G.         | 179 | 15 BA | 11/21/1973 |

|  |                     | FOREIGN PATEN    | IT DOCUMENTS                                       |          |          |    |
|--|---------------------|------------------|--|----------|----------|----|
| Examiner Initials*                                 | Foreign Document No | Publication Date | Name of Patentee or Applicant of<br>cited Document | Class    | Subclass | Υ² |
| 115  | EP-0353819A2        | 02/07/1990       | Gupta, Rajiv , et al.                              | G06F     | 9/46     |    |
| <del>\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </del> | EP-0473452A2        | 03/04/1992       | Duerrschmid, O., et al.                            | G06F     | 9/46     |    |
|  | EP-0475282A2        | 03/18/1992       | Kametani, Masatusugu                               | G06F     | 9/46     |    |
|  | EP-0501524A2        | 09/02/1992       | Hillis, Daniel W., et al.                          | G06F     | 15/16    |    |
| $\neg \vdash \neg$                                 | EP-0570729A2        | 11/24/1993       | Collins, Clive A., et al.                          | G06F     | 15/16    |    |
|  | WO-87/01750A1       | 03/26/1987       | Anderson, S.                                       | E04B     | 1/94     |    |
|  | WO-88/08652A1       | 11/03/1988       | Hillis, D. W., et al.                              | H04J     | 3/26     |    |
|  | WO-95/16236A1       | 06/15/1995       | Oberlin, Steven M., et al.                         | G06F     | 9/46     |    |
| V  | WO-96/10283A1       | 04/04/1996       | Bonner, J.   | H02<br>H | 3/087    |    |
| 1.5.   | WO-96/32681A1       | 10/17/1996       | Thorson, Gregory M., et al.                        | G06F     | 15/16    |    |

|                       | OTHER        | R DOCUMENTS NON PATENT LITERATURE DOCUMENTS   |   |
|-----------------------|--------------|---|---|
| Examiner<br>Initials* | Cite<br>No 1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T |
| 15.                   |              | "Deadlock-Free Routing Schemes on Multistage Interconnection Networks", IBM Technical Disclosure Bulletin, 35, (December, 1992),232-233   |   |
|                       |              | ADVE, V. S., et al., "Performance Analysis of Mesh Interconnection Networks with Deterministic Routing", <u>Transactions on Parallel and Distributed Systems</u> , (March 1994),225-246   |   |
|                       |              | BOLDING, KEVIN, "Non-Uniformities Introduced by Virtual Channel Deadlock Prevention", Technical Report 92-07-07, Department of Computer Science and Engineering, FR-35 University of Washington; Seattle, WA 98195, (July 21, 1992).                            |   |
|                       |              | BOLLA, F R., "A Neural Strategy for Optimal Multiplexing of Circuit and Packet-<br>Switched Traffic", <u>Department of Communications</u> , <u>Computer and Systems</u><br>Science (DIST), University of Genova, 1324-1330                                      |   |
|                       |              | BOURA, Y M., et al., "Efficient Fully Adaptive Wormhole Routing in n-dimenstional Meshes", IEEE, (1994),589-596   |   |
| 1,5,                  |              | BUNDY, A., et al., "Turning Eureka Stepsinto Calculations in Automatic Program", UK IT, (IEE Conf. Pub. 316), (1991),221-226  |   |
| ·                     |              | CARLILE, BRADLEY R., "Algorithms and Design: The CRAP APP Shared-<br>Memory System", COMPCON SPRING '93, San Francisco, CA, (February 22, 1993),312-320   |   |

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

EXAMINER: Initial if reference considered, include copy of this form with next communication to applicant, a Applicant's unique clistion designation number (optional) 2 Applicant is to place a check mark here if English language Translation is statached

| Substitute for form 1449A/PTO                 | Complete if Known     | required to respond to a collection of information unless it contains a valid OMB control numb |
|---|-----------------------|--|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application Number    | 10/643,741   |
| (Use as many sheets as necessary)             | Filing Date           | August 18, 2003  |
|   | First Named Inventor  | Scott, Steven  |
|   | Group Art Unit        | <del>2153</del> 2185   |
|   | Examiner Name         | Unknown Arpan Savk   |
| Sheet 3 of 4                                  | Attorney Docket No: 1 | 1376.733US1  |

|                           | OTHER        | R DOCUMENTS NON PATENT LITERATURE DOCUMENTS   |   |
|---------------------------|--------------|---|---|
| Examiner<br>Initials*     | Cite<br>No 1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T'  |
| 10                        |              | CHIEN, A. A., et al., "Planar-Adaptive Routing: Low-Cost Adaptive Networks for  |   |
| $\mathcal{A} \mathcal{L}$ |              | Multiprocessors", Pro. 19th International. Symposium on Computer Architecture,  |   |
| 14 1/                     |              | (May 1992),268-277  | <u> </u>  |
| , i l                     |              | DALLY, W. J., et al., "Deadlock-Free Adaptive Routing in Multicomputer  |   |
| 1                         |              | Networks Using Virtual Channels", I.E.E.E. Transactions on Parallel and   |   |
|                           |              | <u>Distributed Systems, 4(4), (April 1993),466-475</u>  |   |
|                           |              | DALLY, WILLIAM, et al., "Deadlock-Free Message Routing in Multiprocessor  |   |
| 1 1                       |              | Interconnection Networks", IEEE Transactions on Computers, C-36, (May   |   |
|                           |              | 1987),547-553   |   |
| - 1 1                     |              | DALLY, WILLIAM, "Performance Analysis of k-ary n-cube Interconnection   | 1   |
|                           |              | Networks", IEEE Transactions on Computers, 39(6), (June 1990),775-785   |   |
|                           |              | DALLY, W. J., "Virtual Channel Flow Control", Pro. 17th International   | İ   |
|                           |              | Symposium on Computer Architecture, pp. 60-68, May 1990,  |   |
|                           |              | DUATO, J., "A New Theory of Deadlock-Free Adaptive Routing in Wormhole  |   |
|                           |              | Networks", I.E.E.E. Transactions on Parallel and Distributed Systems, 4(12),  |   |
|                           |              | (Dec 1993),1320-1331  | ļ   |
| •                         |              | FAANES, G. J., et al., "DECOUPLED VECTOR ARCHITECTURE", US Patent   |   |
|                           |              | Application Ser. No. 10/643,586, filed August 18, 2003 (1376.699US1), 47  |   |
|                           |              | Pages   | ļ   |
|                           |              | GALLAGER, ROBERT, "Scale Factors for Distributed Routing Algorithm", NTC  |   |
|                           |              | '77 Conference Record, 2, at 2-1 through 2-5,   | ļ   |
|                           |              | GHARACHORLOO, KOUROSH, "Two Techniques to Enhance the   | '   |
|                           |              | Performance of Memory Consistency Models", (1991),  | ļ   |
| - 1                       |              | GLASS, C. J., et al., "The Turn Model for Adaptive Routing", Pro. 19th  |   |
|                           |              | International Symposium on Computer architecture, (May 1992),278-287  |   |
|                           |              | GRAVANO, L, et al., "Adaptive Deadlock- and Livelock-Free Routing with all  |   |
|                           |              | Minimal Paths in Torus Networks", <u>IEEE Transactions on Parallel and Distributed</u>  |   |
|                           | -            | Systems, 5(12), (December 1994),1233-1251   | <b> </b>  |
| İ                         |              | GUPTA, RAJIV, et al., "High speed Synchronization of Processors Using Fuzzy   |   |
|                           |              | Barriers", International Journal of Parallel Programming 19 (1990) February,  |   |
|                           |              | No. 1, New York, US pp 53-73,   | <u> </u>  |
|                           |              | ISHIHATA, HIROAKI, et al., "Architecture of Highly Parallel AP1000 Computer",   |   |
|                           |              | Scripta Technica, Inc., Systems and Computers in Japan 24, No. 7,,(1993),pp.  |   |
|                           |              | 69-76   | ļ   |
| 1/1                       |              | JESSHOPE, C. R., et al., "High Performance Communications in Processor  | 1   |
|                           |              | Networks", Proc. 16th International Symposium on Computer Architecture, (May  |   |
| <u>•</u>                  |              | 1989),pgs. 150-157  | <del> </del>                                      |
| 1151                      |              | KIRKPATRICK, S., et al., "Optimization by Simulated Annealing", SCIENCE,  |   |
| 17.11                     |              | May 13, 1993, 220(4599), (May 1983),671-680   | <del>                                      </del> |
|                           |              |   |   |
|                           |              |   | I .   |

DATE CONSIDERED **EXAMINER** Substitute Discosure Statement Form (PTO-1449)

EXAMINER: Initial II reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next conspicant applicant applicant applicant applicant applicant of statement of the conformance and not considered. Include copy of this form with next conspication applicant a

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US Parent & Trademart Office: U.S. DEPARTMENT OF COMMERCE

| Substitute for form 1449A/PTO                 | Complete if Known             | required to respond to a collection of information unless it contains a valid QMB control number |  |  |  |
|---|-------------------------------|--|--|--|--|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application Number 10/643,741 |  |  |  |  |
| (Use as many sheets as necessary)             | Filing Date                   | August 18, 2003  |  |  |  |
|   | First Named Inventor          | Scott, Steven  |  |  |  |
|   | Group Art Unit                | 2153 2(85  |  |  |  |
|   | Examiner Name                 | Unknown Arpa Sava  |  |  |  |
| Sheet 4 of 4                                  | Attorney Docket No:           | 1376.733US1  |  |  |  |

|                       | OTHER  | R DOCUMENTS - NON PATENT LITERATURE DOCUMENTS   |    |
|-----------------------|--|---|----|
| Examiner<br>Initials* | Cite<br>No 1                                     | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposlum, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T' |
|                       |  | LINDER, DANIEL H., et al., "AN ADAPTIVE AND FAULT TOLERANT  |    |
| 1/1/5                 |  | WORMHOLE ROUTING STRATEGY FOR K-ARY N-CUBES", <u>IEEE</u>   |    |
| N. U//                |  | TRANSACTIONS ON COMPUTERS,40(1), (1991),pgs. 2-12   |    |
|                       |  | LUI, Z, et al., "Grouping Virtual Channels for Deadlock-Free Adaptive Wormhole  |    |
|                       |  | Routing", PARLE '93 Parallel Parallel Architectures and Languages Europe, 5th   |    |
| 1 1                   |  | International PARLE Conference, Munich, Germanyl, (June 14-17, 1993),254-   |    |
| 1 1                   | İ  | 265   | L  |
|                       |  | NUTH, PETER, et al., "The J-Machine Network", IEEE, (1992),pgs. 420-423   |    |
|                       |  | O'KEEFE, MATTHEW T., et al., "Static Barrier MIMD: Architecture and   | 1  |
| 1 1                   |  | Performance Analysis", Journal of Parallel and Distributed Computing No. 2.,  |    |
| 1 1                   |  | (March 25, 1995),pp. 126-132  |    |
|                       |  | SCOTT, S. L., "DECOUPLED STORE ADDRESS AND DATA IN A  |    |
| <u> </u>              |  | MULTIPROCESSOR SYSTEM", US Patent Application Ser. 10/643,742, filed  |    |
| 1                     |  | August 18, 2003 (1376.697US1), 27 Pages   |    |
|                       |  | SCOTT, S. L., "LATENCY TOLERANT DISTRIBUTED SHARED MEMORY   |    |
|                       |  | MULTIPROCESSOR COMPUTER", US Patent Application Ser. No. 10/643,585,  |    |
|                       |  | filed August 18, 2003 (1376.700US1), 17 Pages   | İ  |
|                       |  | SCOTT, S. L., et al., "RELAXED MEMORY CONSISTENCY MODEL", US  |    |
|                       |  | Patent Application Ser. No. 10/643,754, filed August 18, 2003 (1376.724US1).  | 1  |
|                       | 1  | 144 Pages   |    |
|                       |  | SHEETS, K., et al., "REMOTE-TRANSLATION MECHANISM FOR A   |    |
| 1 1                   |  | MULTINODE SYSTEM", US Patent Application Ser. No. 10/643758, filed August   |    |
| 1                     |  | 18, 2003 (1376.729US1), 42 Pages  |    |
|                       |  | SHUMAY, M, "Deadlock-Free Packet Networks", Transputer Research and   |    |
| 1 1                   |  | Applications 2, NATUG-2 Proceedings of the Second Conference of the North   |    |
|                       |  | American Transputer Users Group, (October 18-19, 1989),140-177  |    |
|                       | 1  | SNYDER, L., "Introduction to the Configurable, Highly Parallel Computer",   |    |
|                       |  | IEEE, (January 1982),pp. 4756   |    |
|                       |  | TALIA, D., "Message-Routing Systems for Transputer-Based Multicomputer",  |    |
|                       |  | IEEE Micro, Vol. 13, No. 3, XP000380340, (June 1993),62-72  |    |
|                       | <del>                                     </del> | WANG, WEILIN, et al., "Trunk Congestion Control in Heterogeneous Circuit  |    |
| 1 1                   |  | Switched Networks", IEEE, (July 1992),pgs. 1156-1161  |    |
| <del> </del>          |  | WU, MIN-YOU, et al., "DO and FORALL: Temporal and Spacial Control   |    |
|                       |  | Structures", Procedings, Third Workshop on Compilers for Parallel Computers,  |    |
| 1 1,                  |  | ACPC/TR, July 1992,   |    |
| <del></del>           |  | YANG, C. S., et al., "Performance Evaluation of Multicast Wormhole Routing in   |    |
| $\vee$                |  | 2D-Torus Multicomputers", IEEE, (1992),173-178  |    |
| 1 2                   |  | YANTCHEV, J., et al., "Adoptive, low latency, deadlock-free packet routing for  |    |
| 1 1/2 / 1             |  | networks of processors\", IEEE Proceedings, 136, (May 1989),pp. 178-186   |    |
|                       |  | 7.  |    |

|                             |  |                                       |   |                   | ;          |                  |       |
|-----------------------------|--|---------------------------------------|---|-------------------|------------|------------------|-------|
| EXAMINER                    | Meh.   | Anla                                  | DATE CONSIDERED   | 3/                | 28         | /ô               | 7     |
| EXAMINER: Initial if refere | ence considered, whether or not cit<br>appricant. I Applicant's unic | tation is in conformance with MPEP 60 | closure Statement Form (PTQ-1449)<br>9. Draw line through citation if not in conformanco and not considered, include copy of<br>half) a Applicant is to place a check mark here if English language Translation is attact | of this form with | in next co | ,<br>ummunicatio | on to |

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|                       |                     |                     | ENT DOCUMENTS                                   | Fill D-4-                     |
|-----------------------|---------------------|---------------------|---|-------------------------------|
| Examiner<br>Initial * | USP Document Number | Publication<br>Date | Name of Patentee or Applicant of cited Document | Filing Date<br>If Appropriate |
| 11-5                  | US-2002/0169938A1   | 11/14/2002          | Scott, S. L., et al.                            | 12/14/2001                    |
| 14.                   | US-2002/0172199A1   | 11/21/2002          | Scott, S. L., et al.                            | 12/14/2001                    |
|                       | US-2003/0005380A1   | 01/02/2003          | Nguyen, H. T., et al.                           | 06/29/2001                    |
|                       | US-2005/0044128A1   | 02/24/2005          | Scott, S. L., et al.                            | 08/18/2003                    |
|                       | US-2005/0044340A1   | 02/24/2005          | Sheets, K., et al.                              | 08/18/2003                    |
|                       | US-4,541,046        | 09/10/1985          | Nagashima, S., et al.                           | 03/23/1982                    |
|                       | US-4,888,679        | 12/19/1989          | Fossum, T., et al.                              | 01/11/1988                    |
|                       | US-5,068,851        | 11/26/1991          | Bruckert, W., et al.                            | 08/01/1989                    |
|                       | US-5,197,130        | 03/23/1993          | Chen, S. S., et al.                             | 12/29/1989                    |
|                       | US-5,418,916        | 05/23/1995          | Hall, B. A., et al.                             | 10/04/1990                    |
|                       | US-5,430,850        | 07/04/1995          | Papadopoulos, G. M., et al.                     | 07/22/1991                    |
|                       | US-5,430,884        | 07/04/1995          | Beard, Douglas R., et al.                       | 06/11/1990                    |
|                       | US-5,446,915        | 08/29/1995          | Pierce, P. R.                                   | 05/25/1993                    |
|                       | US-5,560,029        | 09/24/1996          | Papadopoulos, G. M., et al.                     | 05/31/1994                    |
|                       | US-5,640,524        | 06/17/1997          | Beard, D. R., et al.                            | 02/28/1995                    |
|                       | US-5,649,141        | 07/15/1997          | Yamazaki, T.                                    | 06/30/1995                    |
|                       | US-5,787,494        | 07/28/1998          | Delano, E. R., et al.                           | 09/22/1995                    |
|                       | US-5,860,146        | 01/12/1999          | Vishin, S., et al.                              | 06/25/1996                    |
|                       | US-5,897,664        | 04/27/1999          | Nesheim, W. A., et al.                          | 07/01/1996                    |
|                       | US-6,003,123        | 12/14/1999          | Carter, N. P., et al.                           | 02/10/1998                    |
|                       | US-6,088,701        | 07/11/2000          | Whaley, K. M., et al.                           | 11/14/1997                    |
|                       | US-6,101,590        | 08/08/2000          | Hansen, C.                                      | 10/10/1995                    |
|                       | US-6,105,113        | 08/15/2000          | Schimmel, C. F.                                 | 08/21/1997                    |
|                       | US-6,490,671        | 12/03/2002          | Frank, R. L., et al.                            | 05/28/1999                    |
|                       | US-6,684,305        | 01/27/2004          | Deneau, T. M.                                   | 04/24/2001                    |
|                       | US-6,782,468        | 08/24/2004          | Nakazato, S.                                    | 12/13/1999                    |
|                       | US-6,816,960        | 11/09/2004          | Koyanagi, H.                                    | 07/10/2001                    |
| 17                    | US-6,922,766        | 07/26/2005          | Scott, S. L.                                    | 09/04/2002                    |
|                       | US-6,925,547        | 08/02/2005          | Scott, S. L., et al.                            | 12/14/2001                    |
| <i>A</i> . >.         | US-6,976,155        | 12/13/2005          | Drysdale, T. G., et al.                         | 06/12/2001                    |

|                       | OTHE         | R DOCUMENTS NON PATENT LITERATURE DOCUMENTS   |    |
|-----------------------|--------------|---|----|
| Examiner<br>Initials* | Cite<br>No ' | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | Τ² |
| 15                    |              | "Cray Assembly Language (CAL) for Cray X1™ Systems Reference Manual", Section 2.6, Memory Ordering, http://docs.cray.com/books/S-2314-51/index.html, (June, 2003), 302 pgs.   |    |
| 1 5                   |              | "ECPE 4504: Computer Organization Lecture 12: Computer Arithmetic", The Bradley Department of Electrical Engineering, (Oct. 17, 2000), 12 pgs.  |    |

EXAMINER DATE CONSIDERED 3 28 07

Substitute Disclosure Statement Form (PTO-1449)

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 800, Draw first through citation if not in conformance and not considered, include copy of this form with next/communication to applicability adoption in under the property of the property

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|--|---|---------------------|--|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Use as many sheels as necessary) | <b>Application Number</b>   | 10/643,741          |  |
|  | Filing Date   | August 18, 2003     |  |
|  | First Named Inventor  | Scott, Steven       |  |
|  | Group Art Unit  | 2153 2 (85          |  |
|  | Examiner Name   | Unknown Arpan Shuly |  |
| Sheet 2 of 2   | Attorney Docket No:   | 1376.733US1         |  |

|                       | OTHER                   | R DOCUMENTS NON PATENT LITERATURE DOCUMENTS   |          |
|-----------------------|-------------------------|---|----------|
| Examiner<br>Initials* | Cite<br>No <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | Ť        |
| 1.5.                  |                         | ABTS, D, "So Many States, So Little Time: Verifying Memory Coherence in the Cray X1", Parallel and Distributed Processing Symposium, (April 22, 2003), 11-20  |          |
|                       |                         | CARLILE, BRADLEY R., "Algorithms and Design: The CRAY APP Shared-<br>Memory System", COMPCON Spring '93. Digest of Papers., (February 22, 1993), 312-320  |          |
|                       |                         | CHEN, Y., et al., "UTLB: A Mechanism for Address Translation on Network Interfaces", Proceedings of the Eighth International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS), (1998),193-204                       |          |
|                       |                         | ERNST, D., et al., "Cyclone: A Broadcast-Free Dynamic Instruction Scheduler with Selective Replay", 30th Annual International Symposium on Computer Architecture (ISCA-2003), (June, 2003), 10 pgs.   |          |
|                       |                         | KONTOTHANASSIS, L., et al., "VM-Based Shared Memory on Low-Latency, Remote-Memory-Access Networks", Proceedings of the ACM ISCA '97, (1997), 157-169  |          |
|                       |                         | PATTERSON, DAVID A., et al., <u>Computer Architecture: A Quantitative</u> <u>Approach</u> , Second Edition, Morgan Kaufmann Publishers, Inc., San Francisco, CA,(1996), 39-41   |          |
|                       |                         | PATTERSON, DAVID A., et al., <u>Computer Architecture: A Quantitative Approach</u> , 2nd Edition, Morgan Kaufmann Publishers, Inc., San Francisco, CA,(1996), 179-187, 373-384  |          |
| V                     |                         | SCOTT, S., "Synchronization and Communication in the T3E Multiprocessor", ASPLOS, Volume II, (1996),pp. 26-36   | <u> </u> |
| A. 19,                |                         | WOOD, D. A., et al., "An In-Cache Address Translation Mechanism",  Proceedings of the 13th Annual International Symposium on Computer  Architecture, (1986), 358-365  |          |

EXAMINER MACHINE Disclosure Statement Form (PTO-1449)

PTO/SB/06A(10-01
Approved for use through 10/31/2002, OAB 651-0031

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|-------------------------------|-----------------------|--|--|--|
| INFORMATION DISCLOSURI        |                       | 10/643,741   |  |  |
| STATEMENT BY APPLICANT        | Filing Date           | August 18, 2003  |  |  |
| / 4                           | First Named Inventor  | Scott, Steven  |  |  |
| JUN 1 2 2006                  | Group Art Unit        | <del>2153</del> 2/85   |  |  |
| 3014 . 2 2003                 | Examiner Name         | Unknown Arpan Sark   |  |  |
| Sheet 1 of 1                  | Attorney Docket No: 1 | 1376.733US1  |  |  |

|                       |                     | US PAT              | ENT DOCUMENTS                                   |                               |
|-----------------------|---------------------|---------------------|---|-------------------------------|
| Examiner<br>Initial * | USP Document Number | Publication<br>Date | Name of Patentee or Applicant of cited Document | Filing Date<br>If Appropriate |
| 15                    | US-5,765,009        | 06/09/1998          | Ishizaka, K.                                    | 01/08/1997                    |
| 17-3                  | US-6,308,316        | 10/23/2001          | Hashimoto, S., et al.                           | 01/08/1998                    |

|                    |              | R DOCUMENTS NON PATENT LITERATURE DOCUMENTS   | <del></del> |
|--------------------|--------------|---|-------------|
| Examiner Initials* | Cite<br>No 1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |             |
|                    |              | "Msync - Synchronise Memory with Physical Storage", The Single UNIX �®  | 1           |
| 13.                |              | Specification, Version 2: Msync, The Open Group, http://www.opengroup.org/nlinepubs/007908799/xsh/msync.html, (1997), 3 pgs.  |             |
| 1                  |              | COHOON, J., et al., C++ Program Design, 2nd Edition, McGraw-Hill  |             |
|                    |              | Companies, Inc., (1999), pg. 493  |             |
| V                  |              | PATTERSON, D. A., et al., <u>Computer Architecture</u> : <u>A Quantitative Approach</u> , 2nd Edition, Morgan Kaufmann Publishers, Inc., San Francisco, CA, (1996), 699-708   |             |
| AS.                |              | PATTERSON, D. A., et al., "Computer Architecture: A Quantitative Approach, 2nd Edition, Morgan Kaufmann Publishers, Inc., San Francisco, CA, (1996), 194-197  |             |

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